

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1. (Currently amended) [[:]] ~~Apparatus (30, 100, 200)~~ An apparatus for forming a glue profile for gluing at least one of the a bottom sheets (2) and/or sheet and a folded bottoms (1) bottom of a tube portions portion which ~~(1, 2) [sic] are~~ is used for forming a block bottom bags (19) bag, whereby the device ~~(30, 100, 200)~~ comprises the following features comprising:

[[:]] at least one first glue reservoir ~~(101)~~ or at least one glue input (111a,b) from which a glue is supplied[[:]];

[[:]] glue lines ~~(110)~~ which transport the supplied glue ~~to the gluing locations~~[[:]];

[[:]] a ~~number~~ plurality of glue valves ~~(32)~~ which are configured to open and close individually so as to control flow of the transported glue, the glue profile ~~(4)~~ being definable based on ~~the~~ selective opening of the valves ~~(32)~~;

[[:]] glue outputs ~~(71)~~ which are allocated to the valves and from which the glue is communicated so as to provide the glue profile (32);

[[:]] at least one second glue reservoir ~~(102)~~[[:]] which communicates with at least two of the glue valves (32); and

[[-]] a ~~pressure~~ third glue reservoir (103) disposed downstream of the first glue reservoir and upstream of ~~by means of which~~ the second glue reservoir (102) ~~can be~~ and configured to supply the glue to the second glue reservoir in a pressurized state.

Claim 2 (Withdrawn): Apparatus according to claim 2, characterized in that the pressure reservoir (103) comprises a compressible medium - preferably a gas such as air - which is under pressure.

Claim 3. (Currently amended) [[:]] ~~Apparatus~~ The apparatus according to claim 1, ~~characterized in that the pressure reservoir (103) comprises at least a third glue reservoir (103), in which wherein~~ the glue in the third reservoir is under a higher pressure than in the second reservoir (102).

Claim 4. (Canceled) [[:]]

Claim 5. (Currently amended) [[:]] ~~Apparatus~~ The apparatus according to claim 4 1, ~~characterized in that the at least one further comprising a pressure regulator that connects the second glue reservoir and the at least one third glue reservoir are connected to one another by means of a pressure regulator (105).~~

Claim 6. (Currently amended) [[:]] ~~Apparatus~~ The apparatus according to claim 5, ~~characterized by a~~ wherein the pressure regulator ~~(105) which comprises~~ includes a valve ~~with which the~~ configured to open and close a connection between the second glue reservoir and the third glue ~~reservoirs can be opened and closed~~ reservoir, ~~whereby~~ the valve having an opening time and a closing time ~~of the valve are each shorter~~ being less than 5 ms.

Claim 7. (Currently amended) [[:]] ~~Apparatus~~ The apparatus according to claim 4 1, ~~characterized in that~~ further comprising at least one pump ~~(106) is~~ provided between the first ~~(101)~~ glue reservoir and the third glue reservoir ~~(103) [[:]] which pressures~~ and configured to deliver the glue into the third glue reservoir ~~(103)~~ in the pressurized state.

Claim 8. (Currently amended) [[:]] ~~Apparatus~~ The apparatus according to claim 4 1, ~~characterized in that~~ wherein the third glue reservoir ~~(103) also~~ communicates with a pressure reservoir.

Claim 9. (Currently amended) [[:]] ~~Apparatus~~ The apparatus according to claim 3, ~~characterized in that~~ wherein the ~~at least one~~ third glue reservoir ~~comprises several~~ includes a plurality of glue pressure levels connected in series.

~~Claim 10.~~ (Currently amended) ~~[[:]] Apparatus~~ The apparatus
according to claim 1, ~~characterized by~~ ~~[[-]]~~ further comprising
at least one depressurization valve ~~(122)~~, ~~[[-]]~~ ~~which is in~~
~~direct contact~~ communication with the second glue reservoir ~~(102)~~
and ~~with which~~ configured to reduce the glue pressure ~~in the at~~
~~least one second glue reservoir (102) can be reduced~~ therein.

~~Claim 11.~~ (Currently amended) ~~[[:]] Apparatus~~ The apparatus
according to claim 10, ~~characterized in that~~ wherein the
depressurization valve depressurizes the ~~at least one second glue~~
~~reservoir can be depressurized~~ to atmospheric pressure ~~by means~~
~~of the at least one depressurization valve (122)~~.

~~Claim 12.~~ (Currently amended) ~~[[:]] Apparatus~~ The apparatus
according to claim 1, ~~characterized in that besides the glue~~
~~supply system (101, 102, 103, 105, 106, 110) which conducts glue~~
~~in the direction of the valves (43)~~ ~~[[,]]~~ further comprising a
glue discharge system (114) ~~is also provided, which allows the~~
configured to discharge of the glue by the valves (32) from the
second glue reservoir without the glue passing through the valves
~~(32)~~.

~~Claim 13.~~ (Currently amended) ~~[[:]] Apparatus~~ The apparatus
according to claim 12, ~~characterized in that a glue circulation~~
~~and/or glue exchange in the apparatus (100, 200) can be performed~~

~~by the interaction of the glue supply system (101, 102, 103, 105, 106, 110) and wherein~~ the glue discharge system (114) is a glue recirculation line that conveys the glue from the second glue reservoir to the first glue reservoir.

Claim 14. (Currently amended) ~~[[:]] Apparatus~~ The apparatus according to claim 3, ~~characterized in that~~ further comprising a pressure meter ~~(132, 133) is provided in at least at one of the following locations~~ with at least one of ~~[[:]] at the second glue reservoir (102)~~ at ~~and the third glue reservoir (103).~~

Claim 15 (Withdrawn): Apparatus according to claim 2, characterized in that the at least one second glue reservoir is provided with an additional supply and/or drain (119) through which a cleaning medium like water or compressed air can be conducted.

Claim 16. (Currently amended) ~~[[:]] Apparatus~~ The apparatus according to claim 8 1, ~~characterized in that~~ further comprising at least one of (i) a glue (131) and/or water vessels (130) are provided, in which exchanged glue or used water which is discharged from the glue supply system can be collected discharge line and vessel and (ii) a cleaning medium discharge line and vessel in communication with the second glue reservoir.

~~Claim 17.~~ (Currently amended) ~~[[:]]~~ ~~Apparatus~~ The apparatus
according to claim 1, ~~characterized in that~~ wherein the at least
one first glue reservoir ~~(101) or the at least one glue input~~
~~(111a,b) from which glue is supplied~~ comprises includes a glue
agitator in which components of a starch glue ~~[[:-]]~~ ~~such as~~
~~starch and water~~ ~~[[:-]]~~ can be are placed and stirred ~~into~~ to
provide the starch glue.

~~Claim 18-19.~~ (Canceled) ~~[[:]]~~

20. (New) An apparatus for forming a glue profile for gluing at
least one of a bottom sheet and a folded bottom of a tube portion
which is used to form a block bottom bag, comprising:

- a first glue reservoir from which a glue is supplied;
- glue lines to transport the supplied glue;
- a plurality of glue valves configured to open and close
individually so as to control flow of the transported glue, the
glue profile being defined by selective opening of the valves;
- glue outputs allocated to the valves, from which the glue is
communicated so as to provide the glue profile;
- a second glue reservoir in communication with at least two
of the glue valves;
- a pump that elevates a pressure of the glue from a first
glue reservoir pressure to an elevated pressure; and

a third glue reservoir disposed downstream of the first glue reservoir and upstream of the second glue reservoir, the third glue reservoir containing the glue at the elevated pressure for delivery to the second glue reservoir.

21. (New) The apparatus according to claim 20, further comprising a pressure regulator located in the glue line between the third glue reservoir and the second glue reservoir.

22. (New) The apparatus according to claim 21, wherein the elevated glue pressure is higher than a glue pressure in the second glue reservoir.